

FIG 1



TRANSACTION ID

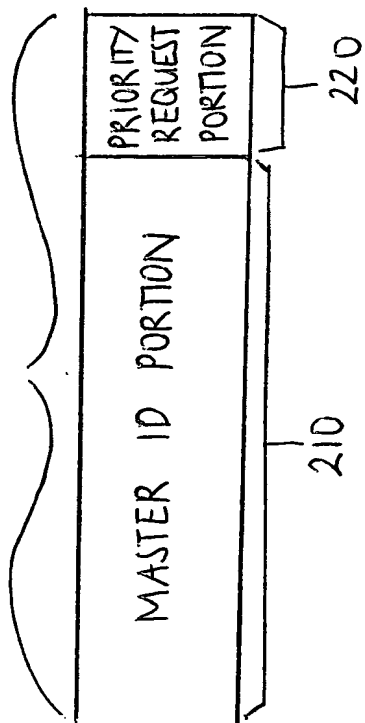


FIG 2A

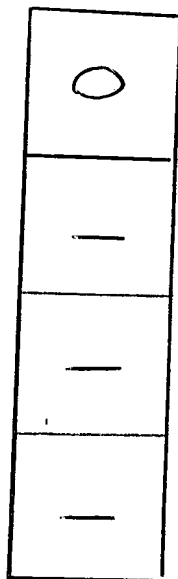


FIG 2B

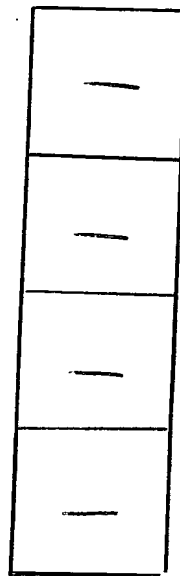


FIG 2C

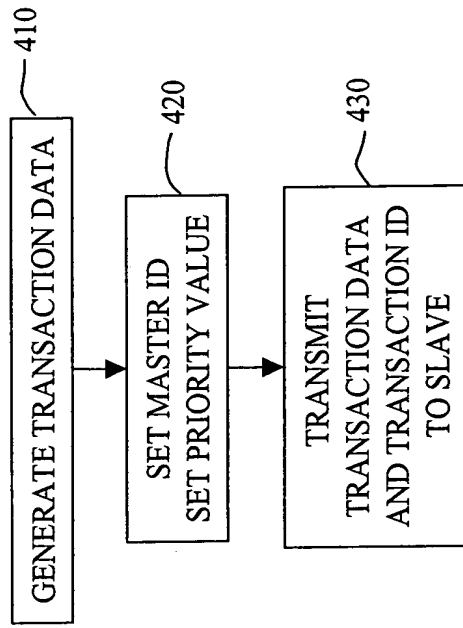
| MASTER ID | PRIORITY VALUE | PRIORITY TIMEOUT |
|-----------|----------------|------------------|
| 00        | 0              | 100              |
| 00        | 1              | 2                |
| 01        | 0              | 110              |
| 01        | 1              | 4                |
| 10        | 0              | 90               |
| 10        | 1              | 10               |
| 11        | 0              | 100              |
| 11        | 1              | 2                |

Figure 3A

| MASTER ID | PRIORITY VALUE | PRIORITY TIMEOUT |
|-----------|----------------|------------------|
| 0         | 00             | 100              |
| 0         | 01             | 50               |
| 0         | 10             | 20               |
| 0         | 11             | 2                |
| 1         | 00             | 40               |
| 1         | 01             | 20               |
| 1         | 10             | 10               |
| 1         | 11             | 5                |

Figure 3B

## MASTER



## SLAVE

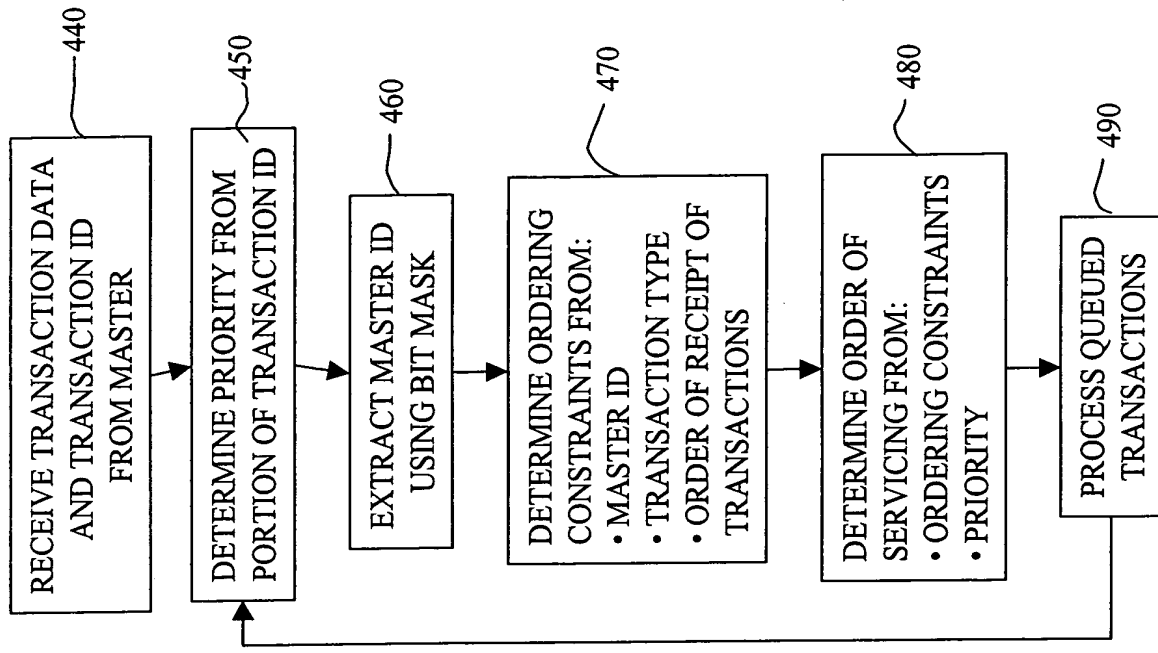


FIG 4

### ORDERING IN TRANSACTION REQUEST BUFFER

| TRANSACTION<br>NUMBER | MASTER ID | PRIORITY | TRANSACTION<br>TYPE |
|-----------------------|-----------|----------|---------------------|
| T1                    | 110       | LOW      | W <sub>1</sub>      |
| T2                    | 111       | LOW      | W <sub>2</sub>      |
| T3                    | 111       | HIGH     | W <sub>3</sub>      |
| T4                    | 111       | LOW      | R <sub>4</sub>      |
| T5                    | 100       | HIGH     | R <sub>5</sub>      |

FIG 5A

### ORDER OF SERVICING OF TRANSACTIONS

| TRANSACTION<br>NUMBER | TRANSACTION<br>TYPE | PRIORITY |
|-----------------------|---------------------|----------|
| T5                    | R5                  | HIGH     |
| T4                    | R4                  | LOW      |
| T2                    | W2                  | LOW      |
| T3                    | W3                  | HIGH     |
| T1                    | W1                  | LOW      |

FIG 5B